BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT SURYAVAMSHI LAYOUT AND SURROUNDING AREAS IN WARD NO.02 OF YELAHANKA SUB-DIVISION

Estimate Cost Rs. 35.00 Lakhs

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
1	KSRB 2-2.1 : **Earth work excavation** for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in **ordinary soil** not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No.5/Item No. 2.3)								
		Cum							
	Suryavamshi Layout Main Road		1	180.00	1.00	1.00	180.00		
			1	180.00	1.00	1.15	207.00		
			1	56.00	1.00	1.20	67.20		
	for Culvert		4	6.00	1.60	1.25	48.00		
							502.20	200.34	**100610.75**
	Basic Rate	189.00							
	Area Weightage @ 6%	11.34							
	Total	200.34							
2	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1 (Page No.133/ Item No 17.1)								
		Cum							
				Qty Vide Item No.1			**502.20**	100.00	**50220.00**
	Average Weight of Earth 1.28 Tonne/Km								
	Basic Rate Lead Charges for 10.00 Kms (2.50X1.28X10.00)	32.00							
	Add loading and unloading Item No 17.1)	68.00							
	Total	**100.00**							
3	KSRB 4-1.3: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.3)								
		Cum							
	Suryavamshi Layout Main Road		1	180.00	1.00	0.15	27.00		
			1	180.00	1.00	0.15	27.00		
			1	56.00	1.00	0.15	8.40		
	for Culvert		4	6.00	1.60	0.15	5.76		

l. o.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
							68.16	5159.02	351638.8
	Basic Rate	4867.00							
	Area Weightage @ 6%	292.02							
	Total	5159.02							
4	KSRB 4.9.2:Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3-do-TMT Bars Fe 500 P.17/It.No.4.46.2 (rates effects from 01-07-2017)								
		tonne	No.of Bars	Width/Lengt	Rmtr	Kg/Rmtr	Total in Kg		
	12mm dia main bar spacing at 150mm c/c	1	1200	2.10	2520.00	0.888	2237.76		
	10mm dia dist bar spacing at 150mm c/c	1	14	180.00	2520.00	0.617	1554.84		
	12mm dia main bar spacing at 150mm c/c	1	1200	2.10	2520.00	0.888	2237.76		
	10mm dia dist bar spacing at 150mm c/c	1	14	180.00	2520.00	0.617	1554.84		
	12mm dia main bar spacing at 150mm c/c	1	373	2.10	784.00	0.888	696.19		
	10mm dia dist bar spacing at 150mm c/c	1	14	56.00	784.00	0.617	483.73		
						in Kg	8765.12		
						in Qtl	87.6512		
						in tonne	8.7651	64243.42	563101.2
	Basic Rate	60607.00							
	Area Weightage @ 6%	3636.42							
	Total	64243.42							
5	KSRB 5.2.3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 (Page No. 23/ Item No. 5.6)								
		Sqm							
			8	6.00	0.60	0.80	23.04		
							23.04	4438.22	102257.00
	Basic Rate	4187.00							
	Area Weightage @ 6%	251.22							
	Total	4438.22							
6	KSRB 15.1.1: Providing **flush pointing** to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.(Page No.113/Item No. 15.1)								
		Sqm							
			8	6.00		0.80	38.40		
							38.40	102.82	3948.00
	Basic Rate	97.00							
	Area Weightage @ 6%	5.82							
	Total	102.82							

S. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	KSRB 4-1.7 : Providing and laying in position plain cement concrete of mix 1:2:4 with OPC cement @ 220kgs with 20mm and down size graded granite metal coarse aggregate @ 0.84cum and fine aggregate @ 0.56 cum machine mixed concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification No. KBS 4.1.4.2.(P No. 13 / Item No.4.7)								
		Cum							
	coping		8	6.00	0.45	0.10	2.16		
	vent		4	6.00	0.60	0.10	1.44		
							3.60	5598.92	**20156.00**
	Basic Rate	5282.00							
	Area Weightage @ 6%	316.92							
	Total	**5598.92**							
	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.21 (P.15 / I.4.31)								
		Sqm							
			2x2	180.00		0.60	432.00		
			2x2	180.00		0.60	432.00		
			2x2	56.00		0.60	134.40		
							998.40	310.58	**310083.07**
	Basic Rate	293.00							
	Area Weightage @ 6%	17.58							
	Total	**310.58**							
	Providing & laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs , with 20mm and down size graded granite metal,coarseaggregated @ 0.69cum ,and fine aggregated @ 0.460cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed -2008 machine mixed concrete laid in layers not exceeding 15 crns thick, vibrated for all works in foundation for footings,pedestals,retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts,struts, buttresses, bed blocks, anchor blocks, plinths etc.,including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications.specifications No.KBS 4.1,4.6 (P.No.13/ I.No.4.11)								
		Cum							
	bed		1	180.00	1.00	0.15	27.00		
			1	180.00	1.00	0.15	27.00		
	Side wall		1	56.00	1.00	0.15	8.40		
			2	180.00	0.15	0.60	32.40		
			2	180.00	0.15	0.60	32.40		
			2	56.00	0.15	0.60	10.08		
							137.28	6371.66	**874701.48**
	Basic Rate	6011.00							

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
Area Weightage @ 6%	360.66							
Total	6371.66							
Providing and fixing **RCC precast Slabs of 0.20 m thick of CC 1:2:4 with 20 mm** and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete								
for culverts	Sqm							
covering slab		4	6.00	1.50		36.00		
						36.00	4402.79	**158500.00**
Data Rate	**4402.79**							
Providing and fixing **RCC precast Slabs of 0.10 m thick of CC 1:2:4 with 20 mm** and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete								
	Sqm							
Suryavamshi Layout Main Road		1	180.00	0.75		135.00		
		1	180.00	0.75		135.00		
		1	56.00	0.90		50.40		
						320.40	2100.00	**672840.00**
Data Rate	**2100.00**							
					Sub-Total Amount			3208056.00
9% for KRIDL Charges								288725.00
Miscellaneous and unforeseen charges								3219.00
					Grand Total Amount			3500000.00

(Rupees Thirty Five Lakhs Only)

ERTIFICATE

1. The site has been inspected and the work is found to be necessary.
2. The rates adopted are as per PW,P IWTD SR of 2016-17 and data rate of Bangalore Circle.
3. The provisions were made in this estimate are necessary and adequate.
4. The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.

Assistant Engineer
Ward No.02

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

ADMINISTRATIVE SANCTION FOR Rs. 35.00 lakhs
thirty five lakhs only

Executive Engineer
Yelahanka Division
B.B.M.P

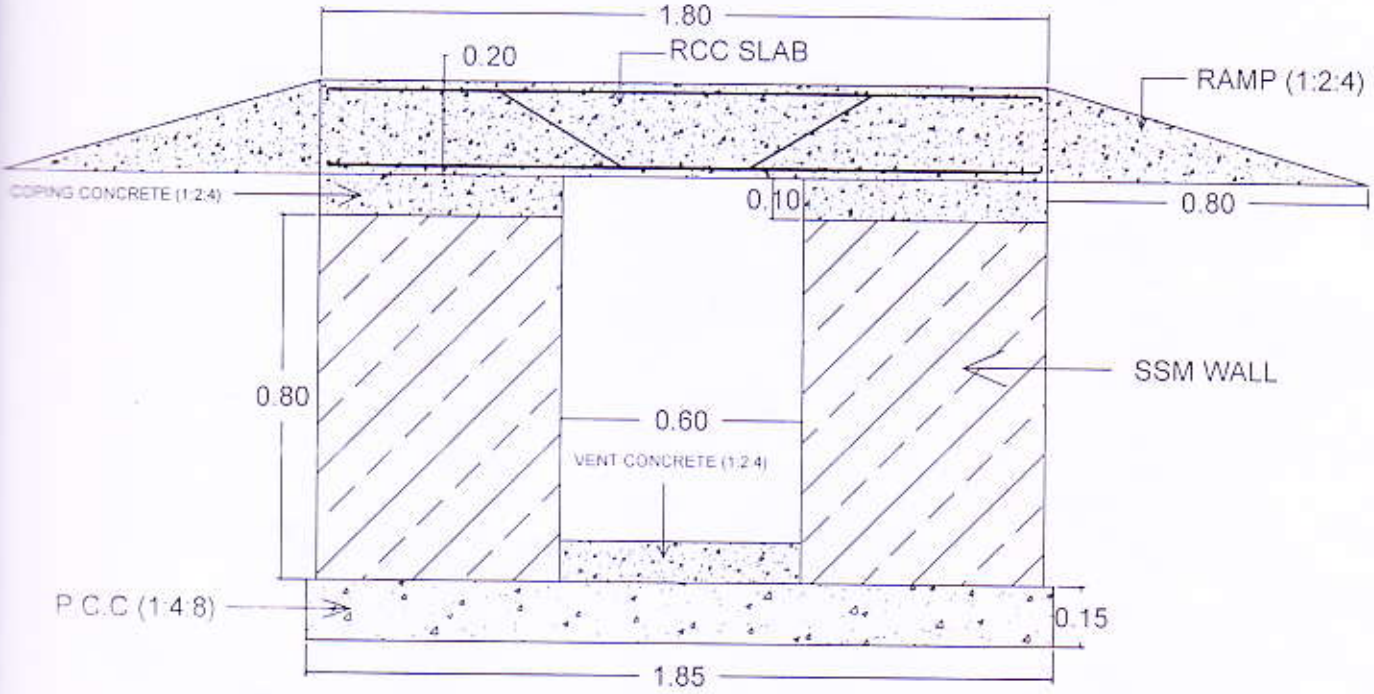
Job number - 002-17-000004

Technical Sanction
Accorded For ....35-00 lakh Rs.
Head of A/C.....P 3162
CER NO :.....305.. Dt:.. 10/11/17

J.C(4) PAC/35/46/17-18
Dated 10-11-2017 35.00 lakhs.

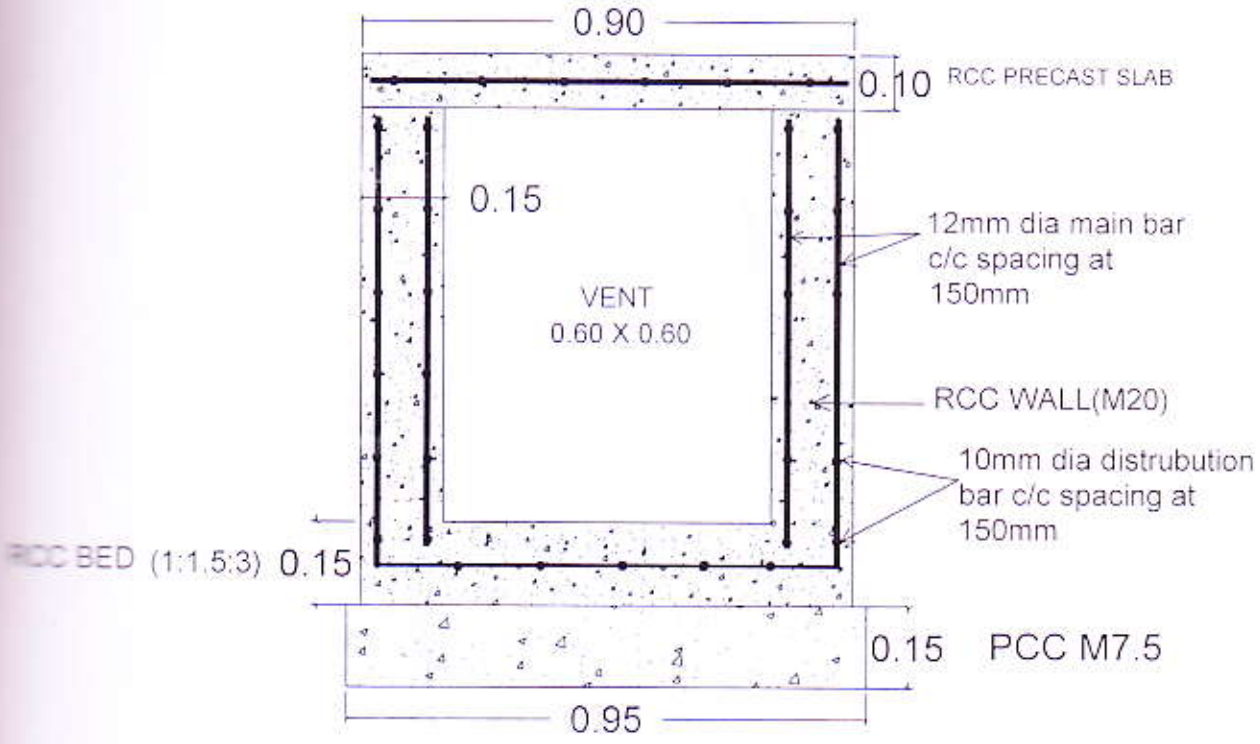
LTA CE (YNK)

NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT SURYAVAMSHI LAYOUT AND SURROUNDING AREAS IN WARD NO.02 OF YELAHANKA SUB-DIVISION



CROSS SECTION OF CULVERT

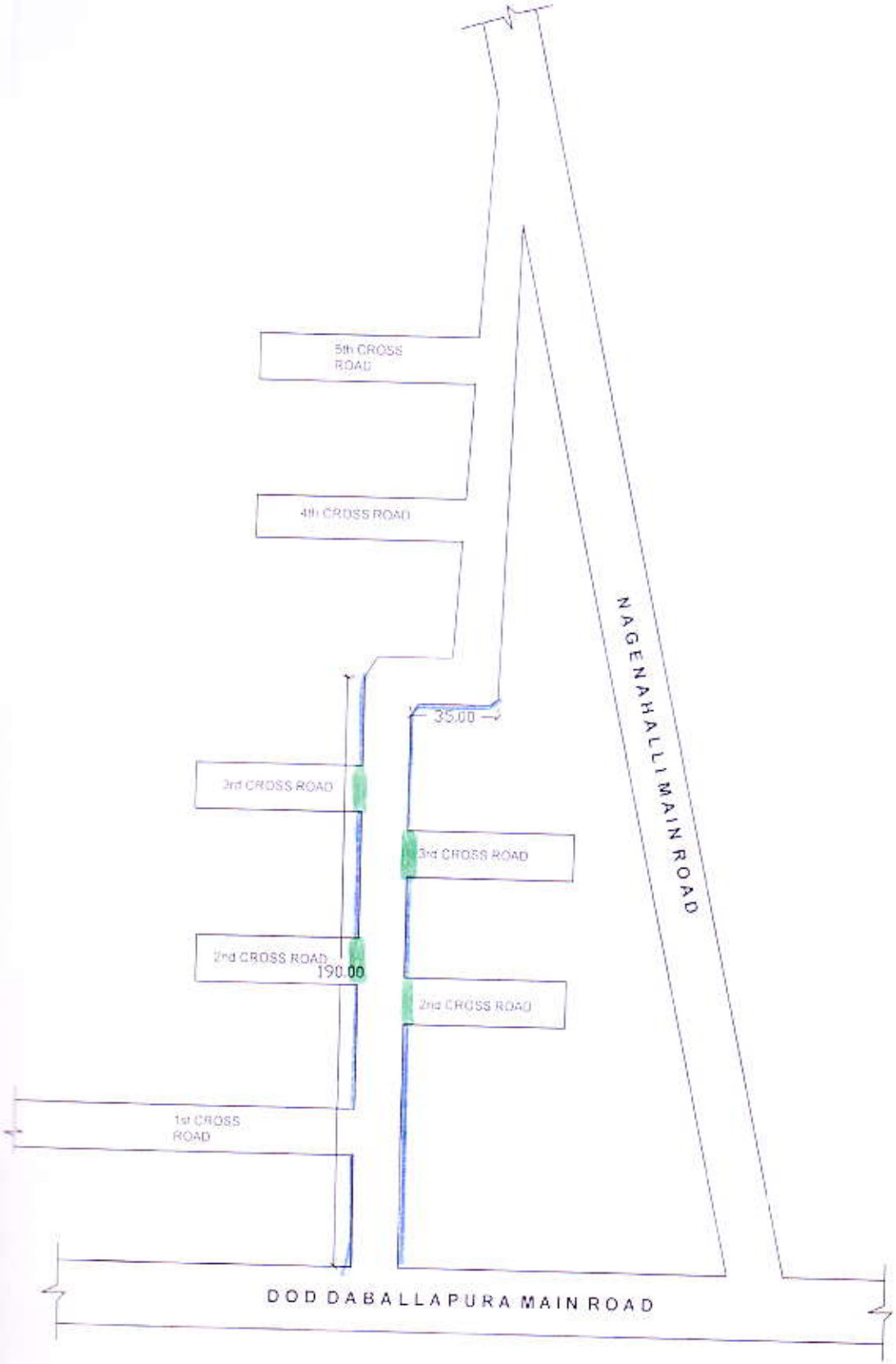
NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT SURYAVAMSHI LAYOUT AND SURROUNDING AREAS IN WARD NO.02 OF YELAHANKA SUB-DIVISION



CROSS SECTION OF RCC DRAIN

AME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT SURYAVAMSHI LAYOUT AND SURROUNDING AREAS IN WARD NO.02 OF YELAHANKA SUB-DIVISION

KEY : NOT TO SCALE



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- CULVERTS

Assistant Engineer
Ward No 02
B.B.M.P

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

YELAHANKA ZONE
WARD 2-CHOWDESHWARI (WARD)